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3 INSTRUMENTED FIBER OPTIC TOW CABLE

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5 ABSTRACT OF THE DISCLOSURE

6 An integrated fiber-optic tow cable is described having both
7 optical fibers and armor wires located outside the cable core to
8 avoid high strain on the optical fibers when the cables is under
9 stress during deployment. The optical fibers have integral
10 temperature sensors near the outermost portion in order to
11 measure accurately the temperature of the fluid coming in contact
12 with temperature sensors. A beam of light is shown on the
13 optical fibers which is reflected by the optical fibers and
14 reaches the receiver and processed by the processor which may
15 also include a display unit.